

Information sheet for the course Pathology and pathophysiology

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| University: <i>Alexander Dubček University of Trenčín</i> | |
| Faculty: <i>Faculty of Health Care</i> | |
| Course unit code: <i>PAPF/e</i> | Course unit title: <i>Pathology and pathophysiology</i> |
| Type of course unit: <i>compulsory</i> | |
| Planned types, learning activities and teaching methods: <i>Lecture: 2 hours weekly/26 hours per semester of study; full-time</i> | |
| Number of credits: <i>3</i> | |
| Recommended semester: <i>4th semester in the 2nd year (part-time)</i> | |
| Degree of study: <i>I (bachelor)</i> | |
| Course prerequisites: <i>Anatomy I., II., Physiology</i> | |
| Assessment methods: <i>During semester student can get 50 points</i> <ul style="list-style-type: none"> - <i>Test (20 points)</i> - <i>Oral examination (30 points)</i> <i>For assesment A is necessary get at least 48 points, for B at least 44 points, for C at least 41 points, for D at least 38 points and for E minimum 35 points.</i> | |
| Learning outcomes of the course unit: <i>After completing the course the student is able to:</i> <ul style="list-style-type: none"> - <i>define the basic concepts of pathological anatomy and physiology,</i> - <i>describe certain medical conditions, inflammatory diseases, pathology of individual systems,</i> - <i>explain the cause of the malfunctioning of the body and disease,</i> - <i>explain the link between disease onset and symptoms.</i> | |
| Course contents: <ol style="list-style-type: none"> <i>1. Introduction to pathology. Methods in pathology.</i> <i>2. Regressive changes. Progressive changes. Pathology of inflammation. Types of inflammation.</i> <i>3. Circulatory disorders (global and local). Pathology of tumors.</i> <i>4. Immunopathology. The pathology of the skeletal system.</i> <i>5. Pathology of the muscular system. The pathology of the central nervous system.</i> <i>6. The pathology of the peripheral nervous system.</i> <i>7. Introduction to Pathophysiology - basic concepts, definitions.</i> <i>8. Fundamentals of molecular etiopatogenesisi. Inflammation, malignant transformation of cells.</i> <i>9. electrolyte and acid-base balance disorders</i> <i>10. Patophysiology of pain. Pathophysiology of the respiratory system.</i> <i>11. Pathophysiology of blood and hematopoietic system. Pathophysiology of the cardiovascular system. Pathophysiology of urinary system.</i> <i>12. Pathophysiology of the digestive system. Pathophysiology of the endocrine system.</i> <i>13. Pathophysiology of nervous system. Pathophysiology of bones and joints.</i> | |
| Recommended of required reading: <ol style="list-style-type: none"> <i>1. BENČAT, M. - BAYER, A. - DANIŠ D. Základy patológie. Martin : Osveta, 2003.</i> <i>2. HULÍN, I., a kol. Patofyziológia a klinická fyziológia pre magisterské a bakalárske štúdium. SAP, s.r.o., 2005. 593 s. ISBN 80-89104-66-5.</i> <i>3. NEČAS, E. Patologická fyziologie orgánových systémů (Část I) Praha : Karolinum, 2009, 379 s. ISBN 9788024617114.</i> <i>4. NEČAS, E. Patologická fyziologie orgánových systémů (Část II Praha : Karolinum, 2009, 379 s. ISBN: 9788024617121.</i> | |

5. MASÁR, O., MALINA, A. *Patologická fyziológia pre nelekárske odbory.*
PLANK, L. - JÁN HANÁČEK, J. A KOL. *Patologická anatómia a patologická fyziológia.* Martin
: Osveta, 2007. 285 s. ISBN 8080632410.

Language: *Slovak*

Remarks:

Evaluation history: *Number of evaluated students*

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Lectures:

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prof. MUDr. Adriana Ondrušová, PhD.

MUDr. Marcel Mišák

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